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DERWENT-WEEK: 200274

TITLE: Apparatus and method for connection distance-classified links using dsl service modem

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PATENT-FAMILY:

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APPLICATION-DATA:

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INT-CL (IPC): H04L012/28

ABSTRACTED-PUB-NO: KR2002038240A

BASIC-ABSTRACT: NOVELTY - An apparatus and method for connection distance-classified links using a DSL(Digital Subscriber Line) service modem is provided to offer a mobile communication service with a higher quality to users by connecting the distance-classified links of the DSL in a long distance as well as a short distance.

DETAILED DESCRIPTION - A subscriber-side DSL modem(100) has a CPU(110) for receiving an initialization profile to output an ADSL(Asymmetric Digital Subscriber Line) reset signal, and outputting an IDSL(ISDN

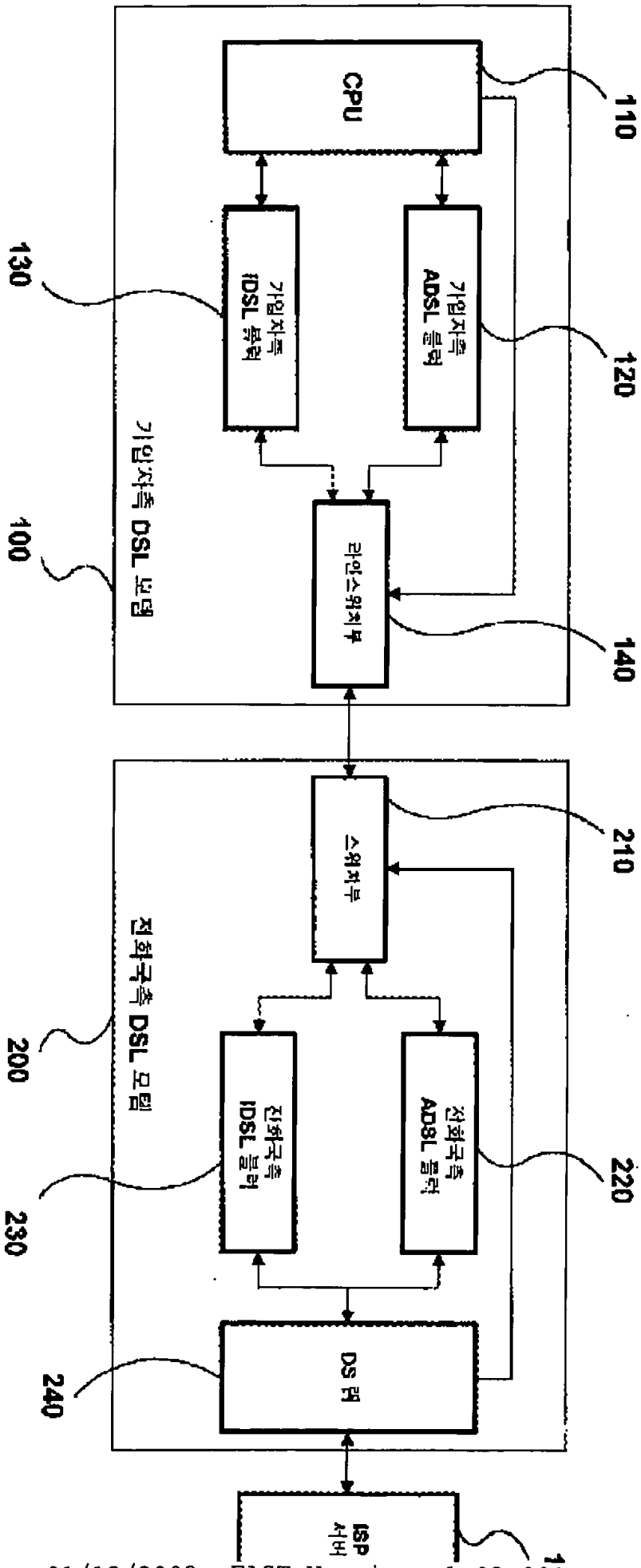
Digital Subscriber
Line) reset signal and simultaneously outputting a switching signal when a data
speed is low or a link is unloaded, and a subscriber-side ADSL block(120) for
receiving the ADSL reset signal from the CPU(110) and being simultaneously
initialized. The subscriber-side DSL modem(100) comprises a subscriber-side
IDSL block(130) for receiving the IDSL reset signal from the CPU(110) and being
simultaneously initialized, and a line switch unit(140) for maintaining an ADSL
mode when the switching signal is not inputted from the CPU(110) and switching
the ADSL mode to an IDSL mode when the switching signal is inputted from the
CPU(110). A telephone office side DSL modem(200) has a switch unit(210) for
maintaining the ADSL mode when the switching signal is not inputted and
switching the ADSL mode to the IDSL mode when the switching signal is inputted,
and a telephone office side ADSL block(220) for receiving test data and
simultaneously outputting the test data to the subscriber-side ADSL block(120)
at ADSL data speed. The telephone office side DSL modem(200) includes a
telephone office side IDSL block(230) for performing a data communication with
the subscriber-side IDSL block(130) at IDSL data speed, and a DSLAM(Digital
Subscriber Line Access Multiplexing)(240) for maintaining the ADSL mode when
the outputted test data have the ADSL transmission speed, and outputting the
switching signal to the switch unit(210) when the outputted test data does not
the ADSL transmission speed for switching the ADSL mode into the IDSL mode.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS:
APPARATUS METHOD CONNECT DISTANCE CLASSIFY LINK SERVICE MODEM

DERWENT-CLASS: W01

EPI-CODES: W01-A06;


CPU
110
가입자측 IDSL 모뎀
130
가입자측 ADSL 모뎀
120
가입자측 DSL 모뎀
100
라인스위치부
140
스위치부
210
전화국측 DSL 모뎀
200
전화국측 IDSL 모뎀
230
전화국측 ADSL 모뎀
220
DS 램
240
ISP 서버